

NM OIL CONSERVATION
ARTESIA DISTRICT

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Bravo Road, Artesia, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

OCT 31 2019

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

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☒ AMENDED REPORT
As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45645	Pool Code 33740	Pool Name Large Well Bore Spring
Property Code 324872	Property Name PURE GOLD MDP1 "29_17" FEDERAL COM	Well Number 1H
OGRID No. 16096	Operator Name OXY USA INC.	Elevation 3349.4'

Surface Location

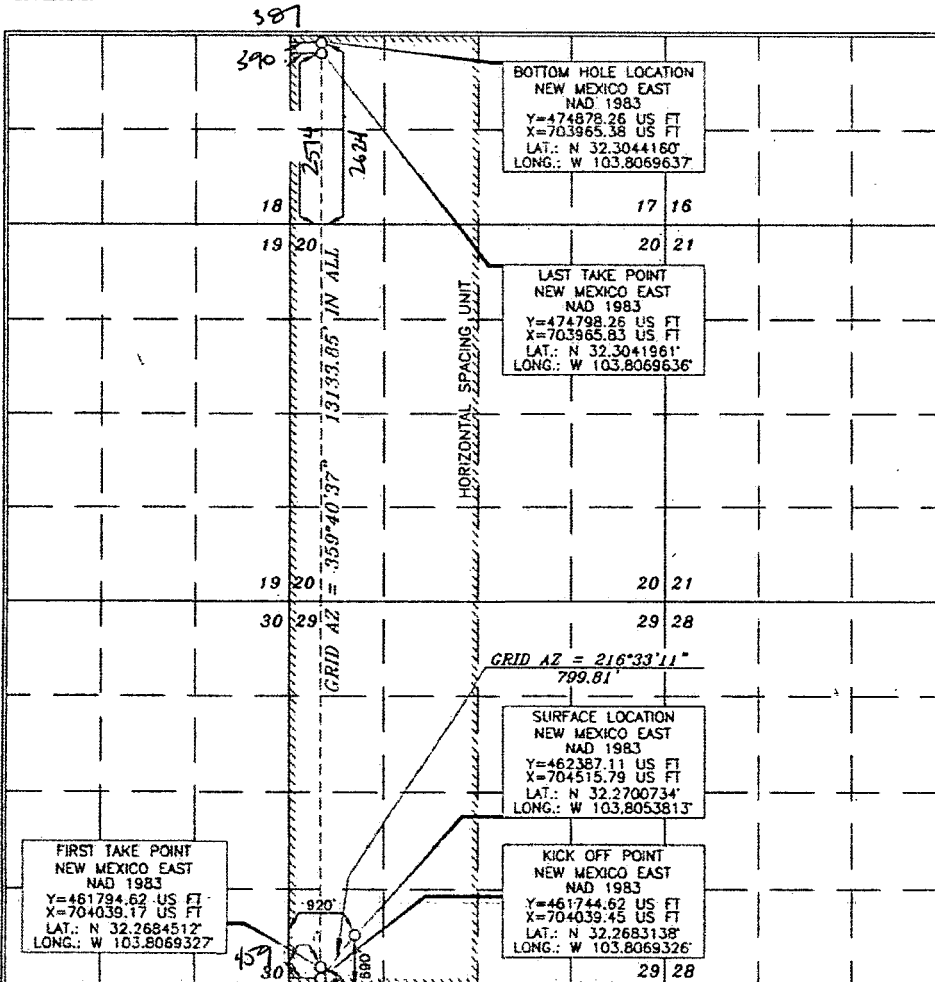
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	29	23 SOUTH	31 EAST, N.M.P.M.		690'	SOUTH	920'	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	17	23 SOUTH	31 EAST, N.M.P.M.		2624	SOUTH	387	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
800			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order.

hereby entered by the division

Sarah Chapman 6/25/19
Signature Date

Sarah Chapman
Printed Name
Sarah-Chapman@oxy.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FERRY J. ASH
15079
APRIL 10, 2019
Date of Survey
Signature and Seal of Professional Surveyor

Terry J. Ash 10/14/2018
Certificate Number 15079

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

May 28, 2019

OXY USA Inc.
P.O. BOX 2289
Houston, TX 77252

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 31 2019

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Re:

S29, T23S, R31E Eddy NM
N 32.27007 W -103.80538

CLIENT: OXY USA Inc.
WELL: Pure Gold MDP1 29-17 Federal Com 1H
FIELD: Ingle Wells Bone Spring

RIG: H&P 656
COUNTY: Eddy
API NO: 30-015-45645
JOB NO: 19MLH0133

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, a division of Schlumberger Technology Corporation (P-5 No. 754900).
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Kamonporn Rimkheeree FE	Pure Gold MDP1 29- 17 Federal Com 1H Original Hole	680.00 Ft to 23044.00 Ft	April 12, 2019 to May 22, 2019	TelePacer SlimPulse

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Andrew Salomon
Field Service Manager

Outfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

Well Reference:

S29, T23S, R31E Eddy NM
N 32.27007 W -103.80538

I, Kamonporn Rimbkeeree certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of April 12, 2019 through May 22, 2019, conduct or supervise the taking of the TelePacer & SlimPulse surveys from a depth of 680.00 feet to a depth of 23044.00 feet referenced to driller's depth; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of OXY USA Inc. for the Pure Gold MDP1 29-17 Federal Com 1H Well (Original Hole) API No. 30-015-45645 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.

By
Kamonporn Rimbkeeree
FE

Kamonporn Rimbkeeree

Subscribed and Sworn to before me this 31 day of May (month) 2019 (yr)

My Commission expires:

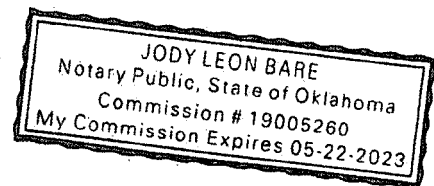
22 May 2023

Jody Leon Bare

Notary Public

(signature)

Grady County Oklahoma
(County State)



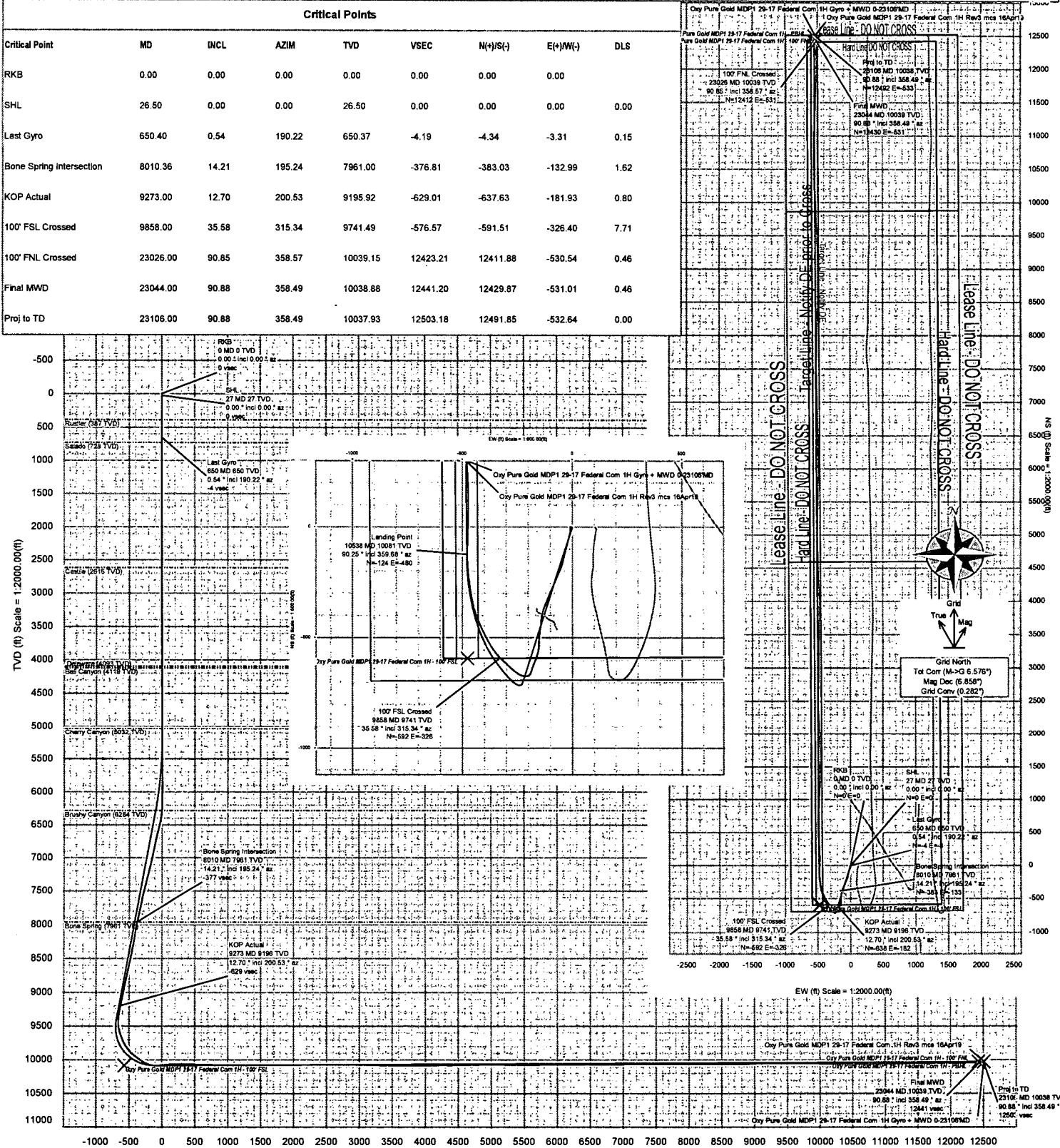
Schlumberger

OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Pure Gold MDP1 29-17 Federal Com 1H	NM Eddy County (NAD 83)	Oxy Pure Gold MDP1 29-17 Federal Com 1H

Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: IFR1 MagDec: 6.858° Dip: 69.992° Data: 10-May-2019 FB: 47970.1nT Gravity FB: 998.462mg (9.80665 Based)	NAD83 New Mexico State Plane, Eastern Zone, US Feet Lat: N 32 16 12.26 Northing: 482387.11RUS Grid Conv: 0.2819° Lon: W 103 48 19.37 Easting: 704516.79RUS Scale Fact: 0.99993969	Oxy Pure Gold MDP1 29-17 Federal Com 1H Oxy Pure Gold MDP1 29-17 Federal Com 1H Gyro + MWD 0-23106MD TVD Ref: RKB=26.5' (3376.9ft above MSL) Plan: Oxy Pure Gold MDP1 29-17 Federal Com 1H 100' FSL



Vertical Section (ft) Azim = 357.48° Scale = 1:2000.00(ft) Origin = 0N-S, 0E-W

Oxy Pure Gold MDP1 29-17 Federal Com 1H Gyro + MWD 0-23106'MD
Survey Geodetic Report
 (Def Survey)



Report Date: May 23, 2019 - 09:05 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Pure Gold MDP1 29-17 Federal Com 1H / Oxy Pure Gold MDP1 29-17 Federal Com 1H
Well: Oxy Pure Gold MDP1 29-17 Federal Com 1H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-45645
Survey Name: Oxy Pure Gold MDP1 29-17 Federal Com 1H Gyro + MWD 0-23106'MD
Survey Date: April 10, 2019
Tort / AHD / DDI / ERD Ratio: 338.759' / 14014.988 ft / 7.037' / 1.390
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 16' 12.26424", W 103° 48' 19.37271"
Location Grid N/E Y/X: N 462387.110 RUS, E 704515.790 RUS
CRS Grid Convergence Angle: 0.2819°
Grid Scale Factor: 0.99993959
Version / Patch: 2.10.760.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 357.477° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 3375.900 ft above MSL
Seabed / Ground Elevation: 3349.400 ft above MSL
Magnetic Declination: 6.858°
Total Gravity Field Strength: 998.4524mg (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 47970.100 nT
Magnetic Dip Angle: 59.992°
Declination Date: May 10, 2019
Magnetic Declination Model: IFR1
North Reference: Grid North
Grid Convergence Used: 0.2819°
Total Corr Mag North->Grid North: 6.5761°
Local Coord Referenced To: Well Head

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 31 2019

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
RKB SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	462387.11	704515.79	N 32 16 12.26	W 103 48 19.37
	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	462387.11	704515.79	N 32 16 12.26	W 103 48 19.37
	92.60	0.54	228.04	92.60	-0.20	-0.21	-0.23	0.82	462386.90	704515.56	N 32 16 12.26	W 103 48 19.38
Last Gyro	180.20	0.80	226.92	180.19	-0.86	-0.90	-0.99	0.30	462386.21	704514.80	N 32 16 12.26	W 103 48 19.38
	269.60	0.55	237.41	269.59	-1.48	-1.56	-1.80	0.31	462385.55	704513.99	N 32 16 12.25	W 103 48 19.39
	364.40	0.48	213.28	364.38	-2.03	-2.14	-2.40	0.24	462384.97	704513.39	N 32 16 12.24	W 103 48 19.40
	458.90	0.46	201.94	458.88	-2.69	-2.82	-2.76	0.10	462384.29	704513.03	N 32 16 12.24	W 103 48 19.41
	553.50	0.47	204.33	553.48	-3.39	-3.52	-3.06	0.02	462383.59	704512.73	N 32 16 12.23	W 103 48 19.41
	650.40	0.54	190.22	650.37	-4.19	-4.34	-3.31	0.15	462382.77	704512.48	N 32 16 12.22	W 103 48 19.41
	680.00	0.44	250.21	679.97	-4.36	-4.51	-3.44	1.68	462382.60	704512.35	N 32 16 12.22	W 103 48 19.41
	770.00	0.67	232.81	769.97	-4.76	-4.95	-4.19	0.31	462382.16	704511.60	N 32 16 12.22	W 103 48 19.42
	861.00	0.18	189.68	860.97	-5.20	-5.41	-4.63	0.61	462381.70	704511.16	N 32 16 12.21	W 103 48 19.43
	951.00	0.20	30.44	950.97	-5.21	-5.41	-4.58	0.42	462381.70	704511.21	N 32 16 12.21	W 103 48 19.43
	1136.00	0.20	211.07	1135.96	-5.21	-5.41	-4.58	0.22	462381.70	704511.21	N 32 16 12.21	W 103 48 19.43
	1226.00	0.15	284.98	1225.96	-5.30	-5.52	-4.78	0.24	462381.59	704511.01	N 32 16 12.21	W 103 48 19.43
	1317.00	0.15	291.69	1316.96	-5.22	-5.44	-5.00	0.02	462381.67	704510.79	N 32 16 12.21	W 103 48 19.43
	1409.00	0.20	224.50	1408.96	-5.28	-5.51	-5.23	0.22	462381.60	704510.56	N 32 16 12.21	W 103 48 19.43
	1503.00	0.15	193.66	1502.96	-5.51	-5.75	-5.37	0.11	462381.36	704510.42	N 32 16 12.21	W 103 48 19.44
	1597.00	0.15	20.03	1596.96	-5.51	-5.75	-5.36	0.32	462381.36	704510.43	N 32 16 12.21	W 103 48 19.44
	1786.00	0.15	279.45	1785.96	-5.23	-5.48	-5.52	0.12	462381.63	704510.27	N 32 16 12.21	W 103 48 19.44
	1880.00	0.20	183.52	1879.96	-5.37	-5.62	-5.65	0.28	462381.49	704510.14	N 32 16 12.21	W 103 48 19.44
	1975.00	0.15	33.72	1974.96	-5.43	-5.68	-5.59	0.36	462381.43	704510.20	N 32 16 12.21	W 103 48 19.44
	2069.00	0.20	27.71	2068.96	-5.19	-5.44	-5.44	0.06	462381.67	704510.35	N 32 16 12.21	W 103 48 19.44
	2164.00	0.20	120.35	2163.96	-5.14	-5.37	-5.22	0.30	462381.74	704510.57	N 32 16 12.21	W 103 48 19.43
	2258.00	0.15	3.43	2257.96	-5.11	-5.33	-5.07	0.32	462381.78	704510.72	N 32 16 12.21	W 103 48 19.43
	2352.00	0.20	12.16	2351.96	-4.82	-5.05	-5.03	0.06	462382.06	704510.76	N 32 16 12.21	W 103 48 19.43
	2447.00	0.15	53.96	2446.96	-4.60	-4.82	-4.90	0.14	462382.29	704510.89	N 32 16 12.22	W 103 48 19.43
	2541.00	0.15	9.04	2540.96	-4.41	-4.62	-4.78	0.12	462382.49	704511.01	N 32 16 12.22	W 103 48 19.43
2636.00	0.15	264.37	2635.96	-4.29	-4.51	-4.88	0.25	462382.60	704510.91	N 32 16 12.22	W 103 48 19.43	
2730.00	0.15	88.03	2729.96	-4.30	-4.52	-4.88	0.32	462382.59	704510.91	N 32 16 12.22	W 103 48 19.43	
2824.00	0.20	104.43	2823.96	-4.35	-4.56	-4.60	0.07	462382.55	704511.19	N 32 16 12.22	W 103 48 19.43	
2919.00	0.15	317.84	2918.96	-4.30	-4.50	-4.52	0.35	462382.61	704511.27	N 32 16 12.22	W 103 48 19.43	
3013.00	0.15	91.23	3012.96	-4.21	-4.42	-4.48	0.29	462382.69	704511.31	N 32 16 12.22	W 103 48 19.43	
3108.00	0.20	204.70	3107.96	-4.37	-4.57	-4.43	0.31	462382.54	704511.36	N 32 16 12.22	W 103 48 19.42	
3202.00	0.15	46.27	3201.96	-4.43	-4.63	-4.41	0.37	462382.48	704511.38	N 32 16 12.22	W 103 48 19.42	
3297.00	0.20	66.24	3296.96	-4.29	-4.48	-4.17	0.08	462382.63	704511.62	N 32 16 12.22	W 103 48 19.42	
3391.00	0.15	29.65	3390.96	-4.13	-4.31	-3.95	0.13	462382.80	704511.84	N 32 16 12.22	W 103 48 19.42	
3486.00	0.15	72.26	3485.96	-3.99	-4.16	-3.77	0.11	462382.95	704512.02	N 32 16 12.22	W 103 48 19.42	
3580.00	0.15	23.18	3579.96	-3.85	-4.01	-3.61	0.13	462383.10	704512.18	N 32 16 12.22	W 103 48 19.41	
3675.00	0.15	80.62	3674.96	-3.72	-3.88	-3.44	0.15	462383.23	704512.35	N 32 16 12.23	W 103 48 19.41	
3769.00	0.15	171.89	3768.96	-3.83	-3.98	-3.30	0.23	462383.13	704512.49	N 32 16 12.23	W 103 48 19.41	
3863.00	0.15	145.26	3862.96	-4.06	-4.20	-3.21	0.07	462382.91	704512.58	N 32 16 12.22	W 103 48 19.41	
3958.00	0.11	304.75	3957.96	-4.11	-4.25	-3.22	0.27	462382.86	704512.57	N 32 16 12.22	W 103 48 19.41	
4052.00	0.12	337.33	4051.96	-3.96	-4.11	-3.33	0.07	462383.00	704512.46	N 32 16 12.22	W 103 48 19.41	
4109.00	0.20	4.79	4108.96	-3.80	-3.95	-3.34	0.19	462383.16	704512.45	N 32 16 12.23	W 103 48 19.41	
4277.00	0.22	297.14	4276.96	-3.35	-3.52	-3.60	0.14	462383.59	704512.19	N 32 16 12.23	W 103 48 19.41	
4466.00	0.34	315.88	4465.95	-2.75	-2.95	-4.32	0.08	462384.16	704511.47	N 32 16 12.24	W 103 48 19.42	
4654.00	0.34	317.13	4653.95	-1.91	-2.14	-5.09	0.00	462384.97	704510.70	N 32 16 12.24	W 103 48 19.43	
4749.00	0.40	330.62	4748.95	-1.40	-1.64	-5.44	0.11	462385.47	704510.35	N 32 16 12.25	W 103 48 19.44	
4843.00	0.47	330.57	4842.94	-0.76	-1.02	-5.79	0.07	462386.09	704510.00	N 32 16 12.25	W 103 48 19.44	
4938.00	0.51	327.32	4937.95	-0.05	-0.33	-6.21	0.05	462386.78	704509.58	N 32 16 12.26	W 103 48 19.45	
5032.00	0.43	320.05	5031.94	0.59	0.30	-6.66	0.11	462387.41	704509.13	N 32 16 12.27	W 103 48 19.45	
5126.00	0.45	324.04	5125.94	1.18	0.87	-7.11	0.04	462387.98	704508.68	N 32 16 12.27	W 103 48 19.46	
5221.00	0.50	333.27	5220.93	1.87	1.54	-7.51	0.10	462388.65	704508.28	N 32 16 12.28	W 103 48 19.46	
5315.00	0.49	327.43	5314.93	2.59	2.24	-7.91	0.05	462389.35	704507.88	N 32 16 12.29	W 103 48 19.46	
5409.00	0.45	334.10	5408.93	3.28	2.91	-8.29	0.07	462390.02	704507.50	N 32 16 12.29	W 103 48 19.47	
5504.00	0.39	333.18	5503.92	3.91	3.54	-8.60	0.06	462390.65	704507.19	N 32 16 12.30	W 103 48 19.47	
5598.00	0.45	306.36	5597.92	4.44	4.04	-9.04	0.22	462391.15	704506.75	N 32 16 12.30	W 103 48 19.48	
5692.00	0.08	197.14	5691.92	4.61	4.20	-9.36	0.51	462391.31	704506.43	N 32 16 12.31	W 103 48 19.48	
5786.00	0.18	20.60	5785.92	4.68	4.27	-9.32	0.28	462391.38	704506.47	N 32 16 12.31	W 103 48 19.48	
5881.00	0.17	137.22	5880.92	4.71	4.31	-9.18	0.31	462391.42	704506.61	N 32 16 12.31	W 103 48 19.48	
5975.00	0.25	6.06	5974.92	4.81	4.41	-9.06	0.41	462391.52	704506.73	N 32 16 12.31	W 103 48 19.48	
6082.00	0.22	6.00	6081.92	5.24	4.85	-9.01	0.03	462391.96	704506.78	N 32 16 12.31	W 103 48 19.48	
6133.00	0.41	38.67	6132.92	5.47	5.09	-8.89	0.50	462392.20	704506.90	N 32 16 12.32	W 103 48 19.48	
6227.00	3.53	169.22	6226.86	2.86	2.51	-8.14	4.05	462389.62	704507.65	N 32 16 12.29	W 103 48 19.47	
6321.00	5.81	176.53	6320.54	-4.76	-5.09	-7.31	2.50	462382.02	704508.48	N 32 16 12.21	W 103 48 19.46	
6416.00	10.53	187.80	6414.56	-18.12	-18.49	-8.20	5.22	462388.62	704507.59	N 32 16 12.08	W 103 48 19.47	
6510.00	14.45	194.60	6506.32	-37.78	-38.36	-12.32	4.45	462384.75	704503.47	N 32 16 11.89	W 103 48 19.52	
6698.00	13.58	194.75	6688.72	-81.28	-82.41	-23.85	0.46	462304.71	704491.94	N 32 16 11.45	W 103 48 19.66	
6793.00	12.18	194.70	6781.33	-101.50	-102.89	-29.24	1.47	462284.23	704486.56	N 32 16 11.25	W 103 48 19.72	
6983.00	13.39	193.70	6966.62	-141.77	-143.65	-39.53	0.65	462243.47	704476.26	N 32 16 10.84	W 103 48 19.84	
7077.00	12.69	193.40	7058.19	-162.15	-164.27	-44.50	0.75	462222.85	704471.29	N 32 16 10.64	W 103 48 19.90	
7195.00	15.42	203.13	7172.66	-188.76	-191.31	-53.67	3.05	462195.81	704462.12	N 32 16 10.37	W 103 48 20.01	
7360.00	16.60	203.83	7331.26	-229.66	-233.05	-71.81	0.72	462154.08	704443.98	N 32 16 9.86	W 103 48 20.22	
7455.00	15.81	203.76	7422.49	-253.42	-257.30	-82.51	0.83	462129.82	704433.29	N 32 16 9.72	W 103 48 20.35	
7549.00	14.97	202.39	7513.12	-275.91	-280.25	-92.29	0.97	462106.88	704423.50	N 32 16 9.58	W 103 48 20.46	
7643.00	14.40	202.83	7604.05	-297.49	-302.25	-101.45	0.62	462084.88	704414.34	N 32 16 9.20	W 103 48 20.57	

Comments	MD (ft)	Incl (°)	Azim Grd (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Bone Spring Intersection	7833.00	13.08	202.89	7788.60	-338.26	-343.83	-118.98	0.69	462043.30	704396.81	N 32 16 8.87 W	103 48 20.78
	7927.00	13.57	200.19	7880.07	-358.04	-363.98	-126.93	0.84	462023.15	704388.87	N 32 16 8.67 W	103 48 20.87
	8010.36	14.21	195.24	7961.00	-376.81	-383.03	-132.99	1.62	462004.10	704382.81	N 32 16 8.48 W	103 48 20.94
	8022.00	14.31	194.58	7972.28	-379.54	-385.80	-133.73	1.62	462001.33	704382.07	N 32 16 8.45 W	103 48 20.95
	8116.00	11.05	190.74	8063.98	-399.42	-405.90	-138.33	3.58	461981.23	704377.47	N 32 16 8.25 W	103 48 21.01
	8210.00	8.01	183.01	8156.67	-414.71	-421.30	-140.36	3.50	461965.84	704375.44	N 32 16 8.10 W	103 48 21.03
	8305.00	10.44	188.67	8250.44	-429.75	-436.42	-142.00	2.73	461950.72	704373.80	N 32 16 7.95 W	103 48 21.05
	8399.00	11.19	189.22	8342.77	-447.03	-453.84	-144.75	0.81	461933.30	704371.05	N 32 16 7.78 W	103 48 21.08
	8493.00	11.33	185.36	8434.96	-465.11	-472.04	-147.07	0.82	461915.10	704368.73	N 32 16 7.60 W	103 48 21.11
	8587.00	14.09	185.97	8526.65	-485.57	-492.62	-149.12	2.94	461894.52	704366.68	N 32 16 7.40 W	103 48 21.14
KOP Actual	8682.00	13.76	181.12	8618.86	-508.29	-515.41	-150.55	1.28	461871.73	704365.25	N 32 16 7.17 W	103 48 21.16
	8777.00	10.71	180.68	8711.69	-528.38	-535.54	-150.87	3.21	461851.60	704364.93	N 32 16 6.97 W	103 48 21.16
	8871.00	13.29	192.56	8803.64	-547.54	-554.83	-153.33	3.79	461832.32	704362.47	N 32 16 6.78 W	103 48 21.19
	8965.00	13.05	196.79	8895.17	-567.99	-575.53	-158.74	1.06	461811.61	704357.06	N 32 16 6.58 W	103 48 21.25
	9060.00	10.83	199.00	8988.11	-586.41	-594.24	-164.75	2.39	461792.90	704351.05	N 32 16 6.39 W	103 48 21.33
	9154.00	13.45	203.10	9080.00	-604.49	-612.65	-171.91	2.93	461774.50	704343.89	N 32 16 6.21 W	103 48 21.41
	9273.00	12.70	200.53	9195.92	-629.01	-637.63	-181.93	0.80	461749.52	704333.87	N 32 16 5.96 W	103 48 21.53
	9367.00	10.18	194.57	9288.05	-646.46	-655.35	-187.64	2.96	461731.80	704328.16	N 32 16 5.79 W	103 48 21.60
	9462.00	10.09	232.99	9381.67	-659.21	-668.50	-196.41	6.99	461718.65	704319.39	N 32 16 5.66 W	103 48 21.70
	9556.00	20.18	277.25	9472.55	-661.13	-671.43	-219.20	15.61	461715.72	704296.61	N 32 16 5.63 W	103 48 21.96
100' FSL Crossed	9651.00	24.98	306.28	9560.52	-645.72	-657.44	-251.74	12.62	461729.71	704264.07	N 32 16 5.77 W	103 48 22.34
	9746.00	26.52	312.11	9646.09	-618.24	-631.34	-283.65	3.12	461755.81	704232.16	N 32 16 6.03 W	103 48 22.71
	9840.00	35.00	313.16	9726.80	-584.15	-588.77	-318.95	9.04	461788.38	704196.86	N 32 16 6.35 W	103 48 23.12
	9858.00	35.58	315.34	9741.49	-576.57	-591.51	-326.40	7.71	461795.63	704189.41	N 32 16 6.43 W	103 48 23.21
	9935.00	38.46	323.98	9803.00	-539.96	-556.18	-356.25	7.71	461830.97	704159.56	N 32 16 6.78 W	103 48 23.55
	10029.00	45.97	332.42	9872.63	-484.85	-502.46	-389.16	10.00	461884.68	704126.66	N 32 16 7.31 W	103 48 23.93
	10124.00	55.00	335.49	9933.02	-417.68	-436.64	-421.18	9.82	461950.49	704094.63	N 32 16 7.96 W	103 48 24.30
	10219.00	53.51	345.14	9988.60	-344.18	-364.21	-447.16	8.39	462022.92	704066.66	N 32 16 8.68 W	103 48 24.60
	10314.00	63.18	351.47	10038.44	-264.46	-285.13	-463.29	11.65	462101.99	704052.53	N 32 16 9.47 W	103 48 24.78
	10408.00	76.15	354.94	10071.04	-176.76	-197.80	-473.58	14.22	462189.32	704042.24	N 32 16 10.33 W	103 48 24.90
	10504.00	91.79	1.19	10081.11	-81.64	-102.73	-476.72	17.52	462284.39	704039.10	N 32 16 11.27 W	103 48 24.93
	10569.00	95.78	1.30	10076.82	-16.94	-37.90	-475.31	6.14	462349.21	704040.51	N 32 16 11.91 W	103 48 24.91
	10598.00	96.41	1.52	10073.74	11.83	-9.07	-474.60	2.30	462378.04	704041.22	N 32 16 12.20 W	103 48 24.90
	10692.00	94.13	0.75	10065.10	105.23	84.51	-472.75	2.56	462471.61	704043.07	N 32 16 13.12 W	103 48 24.87
	10787.00	90.41	358.21	10061.34	200.08	179.40	-473.61	4.74	462566.50	704042.21	N 32 16 14.06 W	103 48 24.88
	10871.00	90.33	357.01	10060.80	284.07	263.33	-477.12	1.43	462650.42	704038.70	N 32 16 14.89 W	103 48 24.91
	10965.00	88.41	355.88	10061.83	378.05	357.13	-482.94	2.37	462744.22	704032.88	N 32 16 15.82 W	103 48 24.98
	11058.00	88.82	358.35	10064.08	471.01	449.98	-487.62	2.69	462837.06	704028.20	N 32 16 16.74 W	103 48 25.03
	11152.00	88.65	358.68	10066.16	564.97	543.93	-490.06	0.39	462931.00	704025.76	N 32 16 17.67 W	103 48 25.05
	11245.00	88.37	359.87	10068.57	657.89	636.89	-491.15	1.42	463023.96	704024.67	N 32 16 18.59 W	103 48 25.06
	11338.00	88.68	0.92	10070.97	750.73	729.85	-490.43	1.07	463116.92	704025.39	N 32 16 19.51 W	103 48 25.04
	11432.00	90.64	2.27	10071.53	844.48	823.81	-487.81	2.53	463210.87	704028.01	N 32 16 20.44 W	103 48 25.01
	11525.00	89.47	1.74	10071.44	937.19	916.75	-484.56	1.38	463303.80	704031.26	N 32 16 21.36 W	103 48 24.96
	11618.00	88.61	2.38	10072.99	1029.88	1009.67	-481.22	1.15	463396.72	704034.60	N 32 16 22.28 W	103 48 24.92
	11712.00	89.61	4.54	10074.46	1123.35	1103.48	-475.55	2.53	463490.53	704040.27	N 32 16 23.21 W	103 48 24.85
	11805.00	89.68	3.48	10075.03	1215.74	1196.25	-469.04	1.14	463583.29	704046.78	N 32 16 24.12 W	103 48 24.77
	11898.00	90.74	1.28	10074.69	1308.39	1289.17	-465.18	2.63	463676.20	704050.64	N 32 16 25.04 W	103 48 24.72
	11992.00	90.37	359.98	10073.78	1402.24	1383.15	-464.15	1.44	463770.18	704051.67	N 32 16 25.97 W	103 48 24.70
	12085.00	89.64	358.87	10073.77	1495.19	1476.15	-465.08	1.43	463863.16	704050.74	N 32 16 26.89 W	103 48 24.70
	12179.00	90.33	0.46	10073.80	1589.12	1570.14	-465.63	1.84	463957.15	704050.19	N 32 16 27.82 W	103 48 24.71
	12272.00	90.47	0.30	10073.15	1682.00	1663.14	-465.01	0.23	464050.14	704050.81	N 32 16 28.74 W	103 48 24.69
	12365.00	89.82	359.23	10072.91	1774.92	1756.13	-465.40	1.35	464143.13	704050.42	N 32 16 29.66 W	103 48 24.69
	12458.00	89.75	358.75	10073.26	1867.89	1849.12	-467.03	0.52	464236.11	704048.78	N 32 16 30.58 W	103 48 24.71
	12553.00	90.23	357.99	10073.28	1962.87	1944.08	-469.74	0.95	464331.07	704046.08	N 32 16 31.52 W	103 48 24.73
	12648.00	90.44	356.53	10072.72	2057.87	2038.97	-474.28	1.55	464425.95	704041.54	N 32 16 32.46 W	103 48 24.78
	12743.00	90.02	356.46	10072.34	2152.85	2133.79	-480.09	0.45	464520.76	704035.73	N 32 16 33.40 W	103 48 24.84
	12837.00	90.33	355.67	10072.05	2246.82	2227.56	-486.54	0.90	464614.54	704029.28	N 32 16 34.33 W	103 48 24.91
	12931.00	90.57	358.11	10071.32	2340.81	2321.42	-491.64	2.61	464708.38	704024.19	N 32 16 35.26 W	103 48 24.97
	13026.00	90.16	358.49	10070.71	2435.80	2416.37	-494.45	0.59	464803.33	704021.37	N 32 16 36.20 W	103 48 24.99
	13120.00	90.37	0.41	10070.28	2529.73	2510.36	-495.36	2.05	464897.32	704020.46	N 32 16 37.13 W	103 48 25.00
	13215.00	90.71	0.96	10069.38	2624.58	2605.35	-494.22	0.68	464992.30	704021.60	N 32 16 38.07 W	103 48 24.98
	13309.00	90.50	1.04	10068.39	2718.40	2699.33	-492.58	0.24	465086.27	704023.24	N 32 16 39.00 W	103 48 24.96
	13404.00	89.68	0.38	10068.24	2813.25	2794.32	-491.40	1.11	465181.26	704024.42	N 32 16 39.94 W	103 48 24.94
	13498.00	88.48	0.63	10069.75	2907.10	2888.30	-490.57	1.30	465275.23	704025.25	N 32 16 40.87 W	103 48 24.92
	13593.00	88.89	0.91	10071.93	3001.92	2983.27	-489.30	0.52	465370.19	704026.52	N 32 16 41.81 W	103 48 24.90
	13688.00	88.89	0.80	10073.77	3096.74	3078.24	-487.88	0.12	465465.16			

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	18036.00	89.89	359.09	10060.45	7440.41	7424.69	-520.62	0.20	469811.34	703995.21	N 32 17 25.76 W 103 48 25.01	
	18130.00	90.13	359.49	10060.43	7534.36	7518.68	-521.78	0.50	469905.32	703994.04	N 32 17 26.69 W 103 48 25.02	
	18225.00	90.50	1.51	10059.91	7629.23	7613.67	-520.95	2.16	470000.31	703994.87	N 32 17 27.63 W 103 48 25.00	
	18414.00	89.78	1.36	10059.45	7817.77	7802.61	-516.22	0.39	470189.24	703999.60	N 32 17 29.50 W 103 48 24.94	
	18509.00	89.78	1.06	10059.81	7912.57	7897.59	-514.21	0.32	470284.21	704001.61	N 32 17 30.44 W 103 48 24.91	
	18697.00	90.06	1.61	10060.07	8100.14	8085.54	-509.83	0.33	470472.14	704005.99	N 32 17 32.29 W 103 48 24.85	
	18886.00	90.47	1.41	10059.20	8288.67	8274.47	-504.85	0.24	470661.06	704010.97	N 32 17 34.16 W 103 48 24.78	
	18980.00	89.89	1.29	10058.91	8382.46	8368.44	-502.64	0.63	470755.03	704013.18	N 32 17 35.09 W 103 48 24.75	
	19075.00	90.23	1.42	10058.81	8477.24	8463.42	-500.39	0.38	470850.00	704015.43	N 32 17 36.03 W 103 48 24.72	
	19169.00	88.58	1.54	10059.78	8571.00	8557.38	-497.96	1.76	470943.95	704017.86	N 32 17 36.96 W 103 48 24.68	
	19264.00	92.15	1.94	10059.18	8665.72	8652.32	-495.08	3.78	471038.89	704020.74	N 32 17 37.90 W 103 48 24.64	
	19358.00	88.72	359.96	10058.46	8759.53	8746.28	-493.52	4.21	471132.85	704022.30	N 32 17 38.83 W 103 48 24.62	
	19453.00	91.06	0.24	10058.65	8854.42	8841.27	-493.36	2.48	471227.83	704022.47	N 32 17 39.77 W 103 48 24.61	
	19547.00	93.57	0.69	10054.85	8948.21	8935.19	-492.59	2.71	471321.74	704023.23	N 32 17 40.70 W 103 48 24.60	
	19642.00	92.43	0.41	10049.88	9042.94	9030.05	-491.68	1.24	471416.60	704024.14	N 32 17 41.64 W 103 48 24.58	
	19736.00	90.47	358.47	10047.50	9136.85	9124.01	-492.60	2.93	471510.55	704023.22	N 32 17 42.57 W 103 48 24.59	
	19830.50	89.92	357.38	10047.18	9231.34	9218.44	-496.02	1.29	471604.98	704019.80	N 32 17 43.50 W 103 48 24.62	
	19925.00	90.02	357.22	10047.23	9325.84	9312.84	-500.48	0.20	471699.37	704015.35	N 32 17 44.44 W 103 48 24.67	
	20020.00	88.85	356.55	10048.16	9420.83	9407.69	-505.64	1.42	471794.21	704010.18	N 32 17 45.38 W 103 48 24.72	
	20115.00	89.75	357.88	10049.32	9515.82	9502.56	-510.42	1.52	471889.08	704005.40	N 32 17 46.32 W 103 48 24.77	
	20209.00	90.26	356.98	10049.32	9609.82	9596.46	-514.80	0.92	471982.97	704001.03	N 32 17 47.25 W 103 48 24.82	
	20304.00	89.03	356.81	10049.90	9704.81	9691.31	-519.94	1.31	472077.82	703995.88	N 32 17 48.18 W 103 48 24.87	
	20398.00	91.88	357.19	10049.16	9798.79	9785.17	-524.86	3.06	472171.67	703990.96	N 32 17 49.11 W 103 48 24.93	
	20493.00	87.89	357.81	10049.35	9893.77	9880.06	-529.00	4.25	472266.56	703986.82	N 32 17 50.05 W 103 48 24.97	
	20588.00	90.09	357.67	10051.02	9988.75	9974.97	-532.75	2.32	472361.46	703983.07	N 32 17 50.99 W 103 48 25.01	
	20682.00	89.54	357.10	10051.33	10082.75	10068.87	-537.04	0.84	472455.35	703978.79	N 32 17 51.92 W 103 48 25.05	
	20776.00	89.37	357.21	10052.22	10176.74	10162.75	-541.70	0.22	472549.22	703974.12	N 32 17 52.85 W 103 48 25.10	
	20871.00	89.34	356.90	10053.29	10271.73	10257.62	-546.58	0.33	472644.09	703969.24	N 32 17 53.79 W 103 48 25.15	
	20965.00	89.95	358.95	10053.87	10365.72	10351.55	-549.99	2.28	472738.01	703965.84	N 32 17 54.72 W 103 48 25.19	
	21060.00	89.58	359.03	10054.26	10460.69	10446.53	-551.66	0.40	472832.99	703964.16	N 32 17 55.66 W 103 48 25.20	
	21155.00	89.64	359.19	10054.91	10555.65	10541.52	-553.14	0.18	472927.97	703962.69	N 32 17 56.60 W 103 48 25.21	
	21249.00	89.89	358.90	10055.29	10649.61	10635.50	-554.14	0.41	473021.95	703961.12	N 32 17 57.53 W 103 48 25.23	
	21344.00	90.13	359.50	10055.28	10744.57	10730.49	-556.03	0.68	473116.83	703959.79	N 32 17 58.47 W 103 48 25.24	
	21438.00	90.61	1.05	10054.67	10838.45	10824.49	-555.58	1.73	473210.92	703960.25	N 32 17 59.40 W 103 48 25.22	
	21533.00	90.26	1.52	10053.95	10933.24	10919.46	-553.45	0.62	473305.89	703962.38	N 32 18 0.34 W 103 48 25.19	
	21627.00	90.13	1.21	10053.63	11027.02	11013.43	-551.21	0.36	473399.86	703964.61	N 32 18 1.27 W 103 48 25.16	
	21721.00	89.99	2.27	10053.53	11120.76	11107.39	-548.36	1.14	473493.81	703967.47	N 32 18 2.20 W 103 48 25.12	
	21816.00	90.37	2.01	10053.23	11215.45	11202.32	-544.81	0.48	473588.73	703971.02	N 32 18 3.14 W 103 48 25.08	
	21910.00	90.81	1.46	10052.26	11309.18	11296.27	-541.96	0.75	473682.68	703973.86	N 32 18 4.07 W 103 48 25.04	
	22004.00	90.99	1.34	10050.79	11402.95	11390.23	-539.67	0.23	473776.63	703976.16	N 32 18 5.00 W 103 48 25.01	
	22099.00	90.88	1.04	10049.24	11497.74	11485.20	-537.69	0.34	473871.59	703978.13	N 32 18 5.94 W 103 48 24.98	
	22194.00	91.12	1.26	10047.58	11592.53	11580.17	-535.79	0.34	473966.55	703980.04	N 32 18 6.88 W 103 48 24.95	
	22288.00	91.05	1.45	10045.80	11686.30	11674.12	-533.56	0.22	474060.51	703982.26	N 32 18 7.80 W 103 48 24.92	
	22382.00	91.54	2.19	10043.68	11780.00	11768.05	-530.58	0.94	474154.43	703985.24	N 32 18 8.73 W 103 48 24.88	
	22477.00	91.09	2.05	10041.50	11874.66	11862.96	-527.07	0.50	474249.33	703988.76	N 32 18 9.67 W 103 48 24.83	
	22571.00	89.27	359.11	10041.20	11968.51	11956.94	-526.12	3.68	474343.31	703989.71	N 32 18 10.60 W 103 48 24.82	
	22666.00	90.40	0.30	10041.47	12063.44	12051.94	-526.60	1.73	474438.29	703989.22	N 32 18 11.54 W 103 48 24.82	
	22760.00	89.34	359.62	10041.69	12157.34	12145.93	-526.67	1.34	474532.29	703989.15	N 32 18 12.47 W 103 48 24.81	
	22855.00	90.88	359.43	10041.50	12252.28	12240.93	-527.46	1.63	474627.27	703988.37	N 32 18 13.41 W 103 48 24.82	
	22949.00	90.71	358.89	10040.20	12346.23	12334.91	-528.84	0.60	474721.25	703986.99	N 32 18 14.34 W 103 48 24.83	
100' FNL	23026.00	90.85	358.57	10039.15	12423.21	12411.88	-530.54	0.46	474798.22	703985.28	N 32 18 15.10 W 103 48 24.84	
Crossed												
Final MWD	23044.00	90.88	358.49	10038.88	12441.20	12429.87	-531.01	0.46	474816.21	703984.82	N 32 18 15.28 W 103 48 24.85	
Proj to TD	23106.00	90.88	358.49	10037.93	12503.18	12491.85	-532.64	0.00	474878.18	703983.18	N 32 18 15.90 W 103 48 24.86	

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	26.500	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 1H Gyro + MWD 0-23106'MD
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 1H Gyro + MWD 0-23106'MD
	1	26.500	650.400	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 1H Gyro + MWD 0-23106'MD
	1	650.400	5409.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 1H Gyro + MWD 0-23106'MD
	1	5409.000	5975.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0_5_DEG	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 1H Gyro + MWD 0-23106'MD
	1	5975.000	9154.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 1H Gyro + MWD 0-23106'MD
	1	9154.000	9273.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0_5_DEG	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 1H Gyro + MWD 0-23106'MD
	1	9273.000	23106.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Pure Gold MDP1 29-17 Federal Com 1H Gyro + MWD 0-23106'MD

...Original Borehole/Oxy Pure Gold MDP1 29-17 Federal Com 1H Gyro + MWD 0-23106'MD



Pure Gold MDP1 29-17 Federal Com 1H Wellbore Diagram

Elevation: GL 3349'

API: 30-015-45645

17-1/2" hole – 13-3/8" 45.5# J-55 csg
Set @ 870'

12-1/4" hole – 9-5/8" 23.5# HCL-80 BTC csg
Set @ 4191'

8-1/2" hole – 7-5/8" 26.4# HCL-80 FJ/SF csg
Set @ 9216'

6-3/4" hole – 5-1/2" 20# P-110 SF TORQ/DQX csg
Set @ 23076'

Frac'd 10297'-22996'
63 stages

*Note: Diagram not to scale

PBTD – 23028' MD

TD – 23106' MD/10038' TVD